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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,188	06/30/2005	Tatsuro Uchida	03500.103081 4934	
5514 7590 05/04/2007 FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112			EXAMINER	
			KIANNI, KAVEH C	
NEW YORK,	NY 10112		ART UNIT	PAPER NUMBER
			2883	
			MAIL DATE	DELIVERY MODE
			05/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)		
		10/541,188	UCHIDA, TATSURO		
		Examiner	Art Unit		
		Kianni C. Kaveh	2883		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133)		
Status					
1)⊠	Responsive to communication(s) filed on 13 Fe	ebruary 2007.			
	This action is FINAL . 2b) This action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.		
Dispositi	ion of Claims				
5)□ 6)⊠	Claim(s) 1,2 and 4 is/are pending in the applica 4a) Of the above claim(s) 6-16 is/are withdrawn Claim(s) is/are allowed. Claim(s) 1-2 and 4 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	n from consideration.			
Applicati	ion Papers				
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on 30 June 2005 is/are: a). Applicant may not request that any objection to the conference of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner.	\boxtimes accepted or b) \square objected to liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	under 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the prioric application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachmen	·	10			
1)	te of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>7</u> .	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	te		

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DETAILED ACTION

Applicant's election with traverse of claims in response/amendment submitted on 2/13/07 is acknowledged. The traversal is on the ground(s) that search and the examination of the entire application can be made without serious burden. This is not found persuasive because as stated in the restriction requirement each of the group Inventions and II are directed to an invention that differ in limitations and each directed to an invention that requires a different search than that of the other group inventions. The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-2 and 4 are rejected under 35 U.S.C. 102(a) as being anticipated by Ouchi (EP 1286194 A2; equivalently/analogously in US 20030039455 A1 and US 6829398 B2 as usc 102(e) references).

Ouchi teaches a light emitting element (shown in at least fig. 2) a light emitting element 5 and a substrate 1 mounting the light emitting element thereon and having an optical path transforming structure 3,4, wherein each of the light emitting element and the substrate comprises a semiconductor body having a surface (see fig. 2 and see parag. 0009 and 0068 and 0071; wherein silicon or Si is of a semiconductor material), the surface of the light emitting element and the surface of the substrate being attached to each other (shown in fig. 2),

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and wherein the optical path transforming structure is **capable** of changing a light proceeding direction in order to couple light from the light emitting element with a light receiving element (this limitation is not given patentable weight because of the word capable that may no not be able to perform it; however, such limitation is clearly taught by Ouchi shown in fig. 2).

Ouchi further teaches wherein said substrate is made of semiconductor body that does not absorb light being propagated from the light emitting element (this is a negative limitation in which not given patentable weight, nevertheless, the laser with its substrate being of semiconductor inherently has such property); a growth substrate of a semiconductor layer for forming said optical element (see parag. 0071); wherein said growth substrate is formed by using a compound semiconductor (see 0071).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goosen et al. (US 5786925).

Goosen teaches an optical device (shown in at least fig. 5) comprising a light emitting element (see at least fig. 5, item 48);

and a substrate 46 mounting the light emitting element thereon and having an optical path structure 42,40, wherein each of the light emitting element and the substrate comprises a semiconductor body having a surface

(see col. 2, lines 38-47), the surface of the light emitting element and the surface of the substrate being attached to each other (shown in fig. 5),

and wherein the optical path transforming structure is **capable** of changing a light proceeding direction in order to couple light from the light emitting element with a light receiving element (this limitation is not given patentable weight because of the word capable that may no not be able to perform it; however, such limitation is clearly taught shown in fig. 5).

However, Goosen does not explicitly state that the above reflective structure is 'transforming' structure and that wherein said substrate is made of a material that does not absorb light being propagated from said optical element or to said optical element. This is a negative limitation in which not given patentable weight, nevertheless, Goosen states that light may be absorptive or reflective depending on design choice/structure (see col. 5, line 49-col. 6, line 14). Thus, it is obvious/well-known to those of ordinary skill in the art when the invention was made that the reflective structure is a light path transforming structure and that would have been obvious to choose as matter of design structure as suggested by Goosen a non-absorptive substrate layer, since such device would provide formation of angled surfaces in a substrate which alter the path of optical signals (see field of the invention, col. 1, 2nd parag.)/

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Goosen further teaches; wherein said substrate is a growth substrate of a semiconductor layer for forming said optical element (see col. 5, 3rd parag.); wherein said growth substrate is formed by using a compound semiconductor (see col. 5 3rd parag.).

Response to Arguments and Amendment

Applicant's argument filed on 2/13/07 have been fully considered but they are not persuasive.

Applicant alleges (page 4, 3rd parag.) that neither Goosen nor Ouchi teach the newly inserted limitations in claim 1 and that there is no motivation for obviousness. The Examiner responds that the newly inserted limitations are substantially similar to that of limitations in the claims deleted by the Applicant which were already rejected by the prior art of the record, and as stated above, and further as stated above clearly motivation statements are cited thereon.

THIS ACTION IS MADE FINAL

This action in response to applicant's amendment made FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will

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expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

 This application contains claims 6-16 drawn to an invention nonelected with traverse in Paper No. 5. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kianni C. Kaveh whose telephone number is 571-272-2417. The examiner can normally be reached on 9:30-19:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

K. Cyrus Kianni Primary Patent Examiner Group Art Unit 2883

April 24, 2007

K. CYRUS KIANNI PRIMARY PATERT EXAMINER